

TORO[®]

Count on it.

Operator's Manual

Blower Kit

GrandStand[®] Multi Force Mower

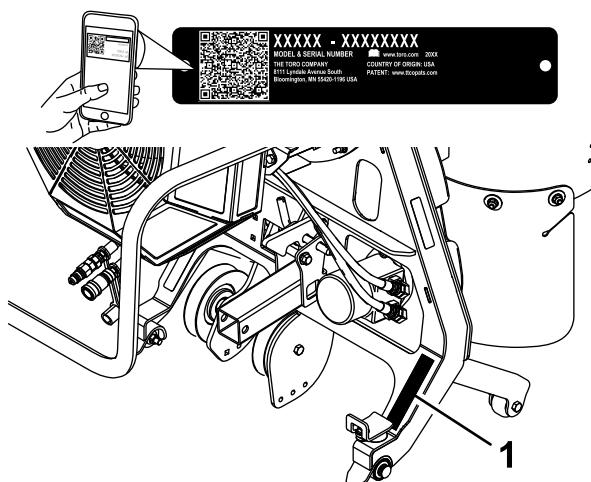
Model No. 78593—Serial No. 400000000 and Up



⚠ WARNING

CALIFORNIA Proposition 65 Warning

Use of this product may cause exposure to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.



g246145

Figure 1

1. Location of the model and serial numbers

Model No. _____

Serial No. _____

This manual identifies potential hazards and has safety messages identified by the safety-alert symbol (Figure 2), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



g000502

Figure 2

1. Safety-alert symbol

This manual uses 2 words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

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Safety

General Safety

This product is capable of throwing objects. Always follow all safety instructions to avoid serious personal injury.

Using this product for purposes other than its intended use could prove dangerous to you and bystanders.

- Read and understand the contents of this *Operator's Manual* before starting the engine.
- Use your full attention while operating the machine. Do not engage in any activity that causes distractions; otherwise, injury or property damage may occur.
- Do not put your hands or feet near moving components of the machine.
- Do not operate the machine without all guards and other safety protective devices in place and working on the machine.
- Keep clear of any discharge opening. Keep bystanders and pets a safe distance away from the machine.
- Keep children out of the operating area. Never allow children to operate the machine.
- Stop the machine, shut off the engine, and remove the key before servicing, fueling, or unclogging the machine.

Improperly using or maintaining this machine can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety-alert symbol, which means Caution, Warning, or Danger—personal safety instruction. Failure to comply with these instructions may result in personal injury or death.

You can find additional safety information where needed throughout this *Operator's Manual*.

Safety and Instructional Decals



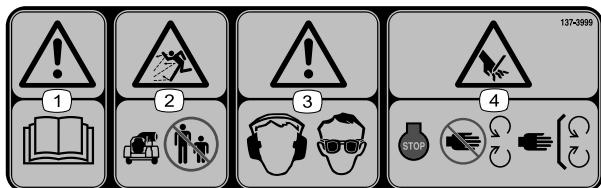
Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.



decal119-0217

119-0217

1. Warning—shut off the engine; stay away from moving parts; keep all guards and shields in place.



decal137-3999

137-3999

1. Warning—read the *Operator's Manual*.
2. Thrown object hazard—keep bystanders away from the machine.
3. Warning—wear hearing and eye protection.
4. Cutting/dismemberment hazard of hands—shut off the engine; keep hands away from moving parts; keep all guards and shields in place.

Setup

Loose Parts

Use the chart below to verify that all parts have been shipped.

Procedure	Description	Qty.	Use
1	No parts required	–	Prepare the machine.
2	Wheel Weight Kit (sold separately)	1	Install the Wheel Weight Kit (optional).
3	No parts required	–	Position the caster wheels.
4	No parts required	–	Remove the fan guard.
5	Blower assembly Bushing assembly Carriage bolt (3/8 x 2-1/4 inches) Locknut (3/8 inch) Receiver hitch Heat shield Bumper Thread-forming screw (1/4 x 1/2 inch) Stop bracket Carriage bolt (3/8 x 1 inch) Nut (3/8 inch)	1 2 2 2 1 1 2 2 2 2 2	Install the blower.

Important: Install the Low Flow Hydraulics Kit on your machine before installing this kit.

1**2**

Preparing the Machine

No Parts Required

Procedure

1. Park the machine on a level surface.
2. Lower the A-frame.
3. Disengage the PTO, engage the parking brake, and move the motion-control levers outward to the NEUTRAL-LOCK position.
4. Shut off the engine and remove the key.

Installing the Wheel Weight Kit (Optional)

Parts needed for this procedure:

1	Wheel Weight Kit (sold separately)
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Procedure

Installing wheel weights can improve traction on the machine when using the blower; refer to the *Installation Instructions* for the Wheel Weight Kit.

3

Positioning the Caster Wheels

No Parts Required

Procedure

For both casters, remove the nut and bolt, move the caster to the front position, and install the nut and bolt (Figure 3). Torque to 91 to 113 N·m (67 to 83 ft-lb).

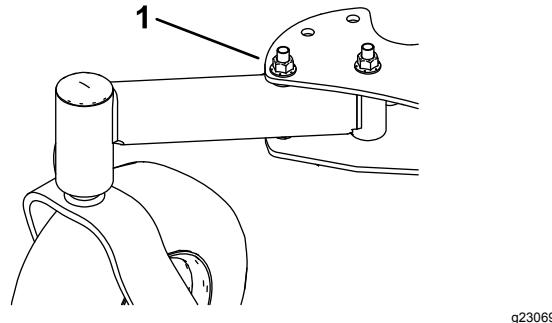


Figure 3

1. Nut and bolt

4

Removing the Right Fan Guard

No Parts Required

Procedure

1. Remove the fuel tank; refer to the *Operator's Manual* for the machine.
2. Remove and retain the 2 bolts, 2 nuts, and the right fan guard (Figure 4).

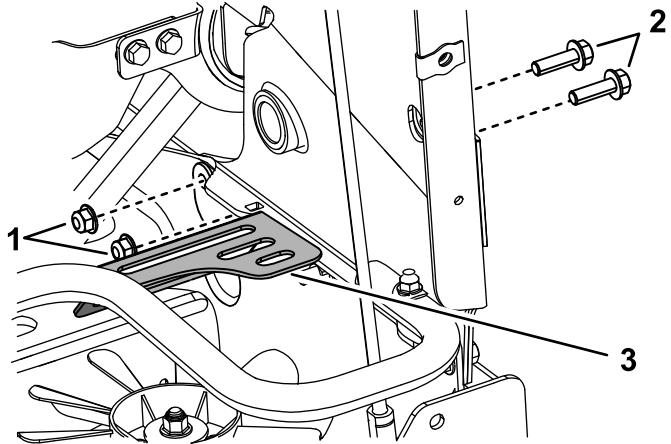


Figure 4

- | | |
|----------------------------|--------------------|
| 1. Nut (3/8 inch) | 3. Right fan guard |
| 2. Bolt (3/8 x 1-1/4 inch) | |

3. Install the bolts and nuts you removed and torque to 41 to 49 N·m (30 to 36 ft-lb).
4. Install the fuel tank.

5

Installing the Blower

Parts needed for this procedure:

1	Blower assembly
2	Bushing assembly
2	Carriage bolt (3/8 x 2-1/4 inches)
2	Locknut (3/8 inch)
1	Receiver hitch
1	Heat shield
2	Bumper
2	Thread-forming screw (1/4 x 1/2 inch)
2	Stop bracket
2	Carriage bolt (3/8 x 1 inch)
2	Nut (3/8 inch)

Procedure

1. Install the 2 bumpers on the heat shield ([Figure 5](#)).

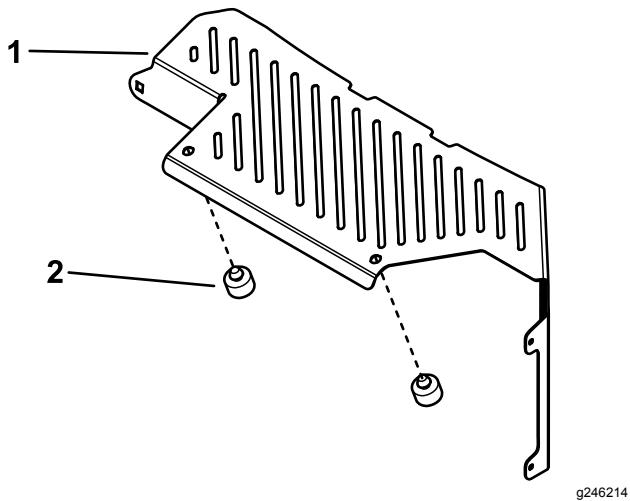


Figure 5

1. Heat shield
 2. Bumper
 2. Remove the top carriage bolt and nut securing the muffler guard to the machine (**Figure 6**).

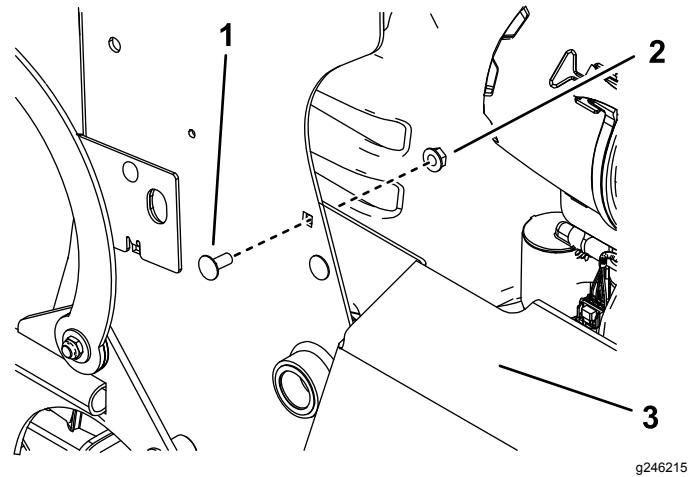


Figure 6

1. Carriage bolt
 2. Nut
 3. Muffler guard
 3. Install the heat shield over the muffler guard, with the tabs inside the muffler guard, and secure it with 2 thread-forming bolts and the carriage bolt and nut you removed previously ([Figure 7](#)).

Important: To minimize debris buildup on the muffler, the heat shield must be installed on the machine when using the blower.

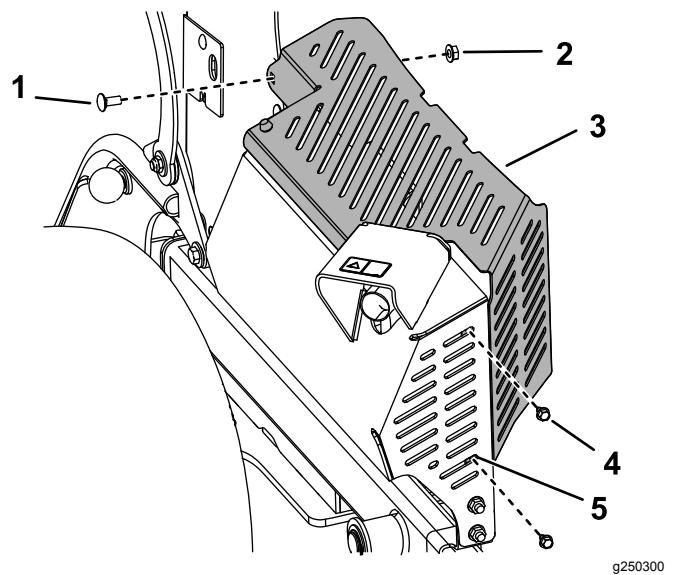


Figure 7

- | | |
|------------------|-------------------------------|
| 1. Carriage bolt | 4. Thread-forming bolt (2) |
| 2. Nut | 5. Tab (inside muffler guard) |
| 3. Heat shield | |

4. Use a carriage bolt (3/8 x 2-1/4 inches) and nut (3/8 inch) to install the bushing assemblies to the machine (Figure 8). Torque the bolt to 37 to 45 N·m (27 to 33 ft-lb).

Note: The rubber flange of the bushing should face toward the inside of the machine as shown in Figure 8.

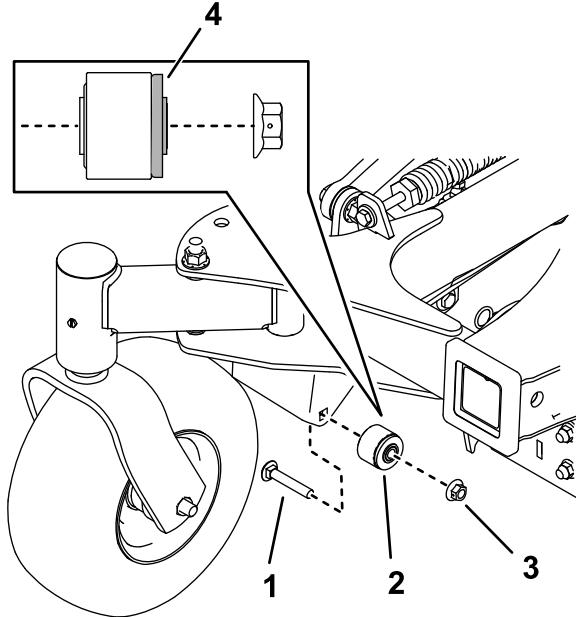


Figure 8

- | | |
|---------------------------------------|-------------------|
| 1. Carriage bolt (3/8 x 2-1/4 inches) | 3. Nut (3/8 inch) |
| 2. Bushing assembly | 4. Rubber flange |

5. Use a carriage bolt (3/8 x 1 inch) and a locknut (3/8 inch) to install the stop brackets to both sides of the machine (Figure 9). Torque the bolt to 37 to 45 N·m (27 to 33 ft-lb).

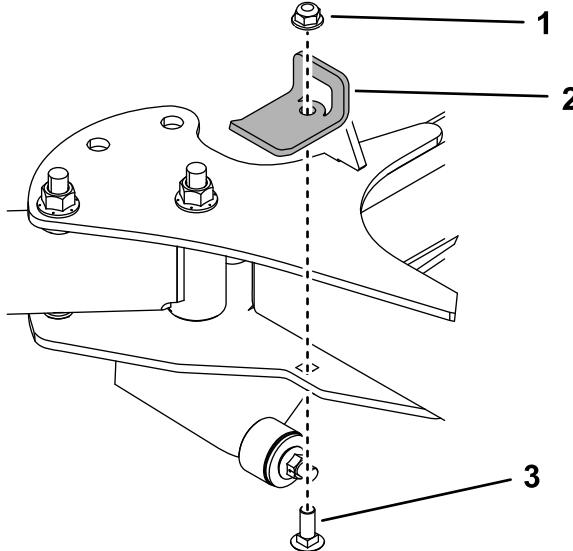


Figure 9

- | | |
|-----------------------|---------------------------------|
| 1. Locknut (3/8 inch) | 3. Carriage bolt (3/8 x 1 inch) |
| 2. Stop bracket | |

6. Remove the hitch pin and cotter pin from the A-frame and use it to install the hitch receiver (Figure 10). Ensure that the pin locks the A-frame to the cross tube.

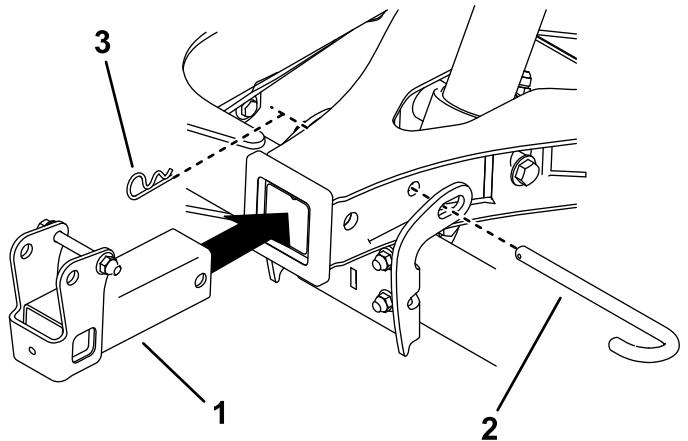


Figure 10

- | | |
|-------------------|---------------|
| 1. Hitch receiver | 3. Cotter pin |
| 2. Hitch pin | |

7. Move the blower in front of the machine and lay the belt underneath the machine so that it is lined up with the clutch (Figure 11).

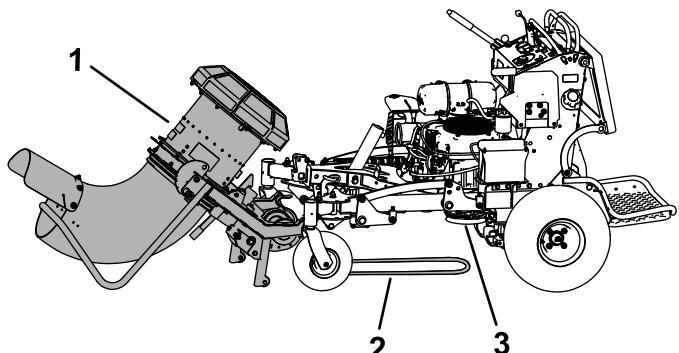


Figure 11

1. Blower assembly 3. Clutch
2. Belt

8. Place the blower assembly forks onto the bushing assemblies (Figure 12).

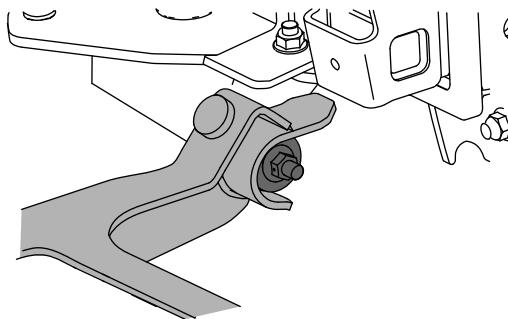


Figure 12

9. Install the belt onto the clutch. Verify that the belt is still routed on the blower pulleys and is seated properly in the pulley grooves.

Note: If needed, you may use a drive ratchet (1/2 inch) to move the left idler pulley (Figure 13).

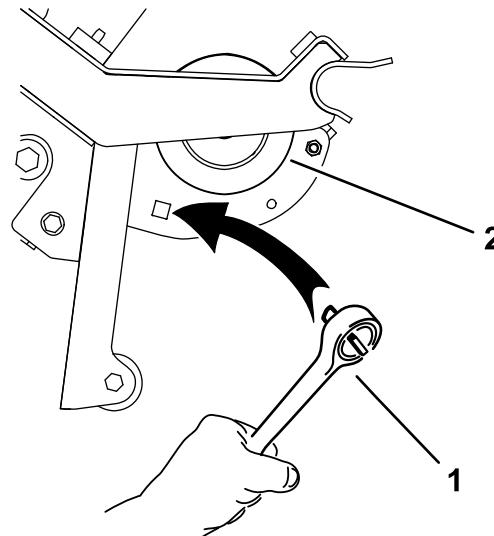


Figure 13

1. Drive ratchet 2. Pulley

10. Raise the blower as described in [Raising the Blower \(page 11\)](#).

11. Connect the hydraulic hoses to the quick-disconnect couplings on the Low Flow Hydraulics Kit.

⚠ WARNING

Hydraulic fluid escaping under pressure can penetrate skin and cause injury. Fluid injected into the skin must be surgically removed within a few hours by a doctor familiar with this form of injury; otherwise, gangrene may result.

- Ensure that all hydraulic-fluid hoses and lines are in good condition and all hydraulic connections and fittings are tight before applying pressure to the hydraulic system.
- Keep your body and hands away from pinhole leaks or nozzles that eject high-pressure hydraulic fluid.
- Use cardboard or paper to find hydraulic leaks; never use your hands.

Operation

Operation Safety

- The machine exceeds noise levels of 85 dB(A) at the operator's position. Use hearing protection for prolonged exposure to reduce the potential of permanent hearing damage.
- Wear appropriate clothing including eye protection; long pants; substantial, slip-resistant footwear; and hearing protection. Tie back long hair and do not wear loose clothing or loose jewelry.
- Stay away from the nozzle opening when the machine is operating. Keep all bystanders away from the nozzle opening and don't direct discharge toward bystanders.
- When a person or pet appears unexpectedly in or near the operating area, stop operation. Careless operation, combined with terrain angles, ricochets, or improperly positioned guards can lead to thrown object injuries. Do not resume operation until the area is cleared of people and pets.

Operating the Blower

Important: Do not operate the blower without the heat shield installed on the machine.

To operate the blower, start the engine, move the motion-control levers to the center, unlocked position, move the throttle lever between half and full throttle, and engage the PTO (Figure 14).

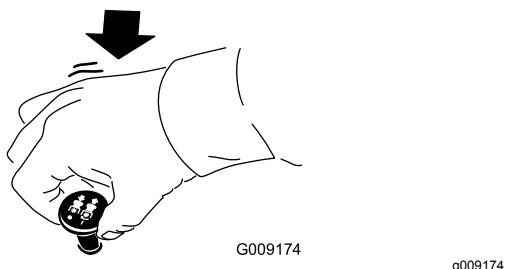


Figure 14

Use the right switch for the low flow kit to rotate the nozzle to the desired direction (Figure 15), and use the throttle lever to adjust the blower speed.

Note: If you would like to change the direction the nozzle rotates when you move the switch a particular direction, remove the quick-disconnect couplings from the Low-Flow Hydraulics Kit hoses and install them on the opposite hoses.

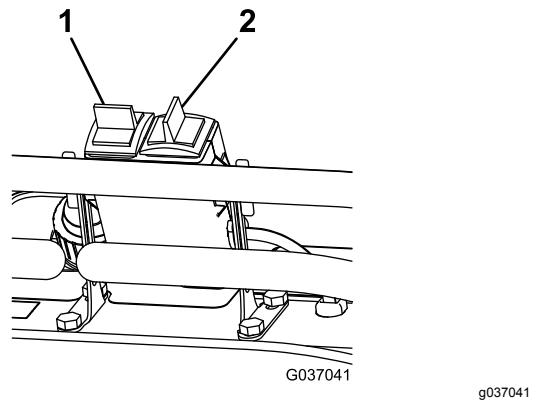


Figure 15

1. Not used with this kit
2. Rotate the blower nozzle.

Ensure to clean debris from the machine regularly.

⚠ WARNING

Discharged air has considerable force and could cause injury or loss of footing.

- Stay away from the nozzle opening when the machine is operating.
- Keep bystanders away from the nozzle opening when the machine is operating.

Using the Kickstand

Lowering the Blower

1. Rotate the blower nozzle so that it points upward.
2. Park the machine on a level surface, disengage the PTO, move the motion-control levers to the NEUTRAL-LOCK position, and engage the parking brake.
3. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
4. Pull out the kickstand locking pins on both sides of the machine, rotate them 90 degrees so that they are disengaged, and rotate the kickstand away from the machine (Figure 16). Engage the pins and ensure that they snap into position.

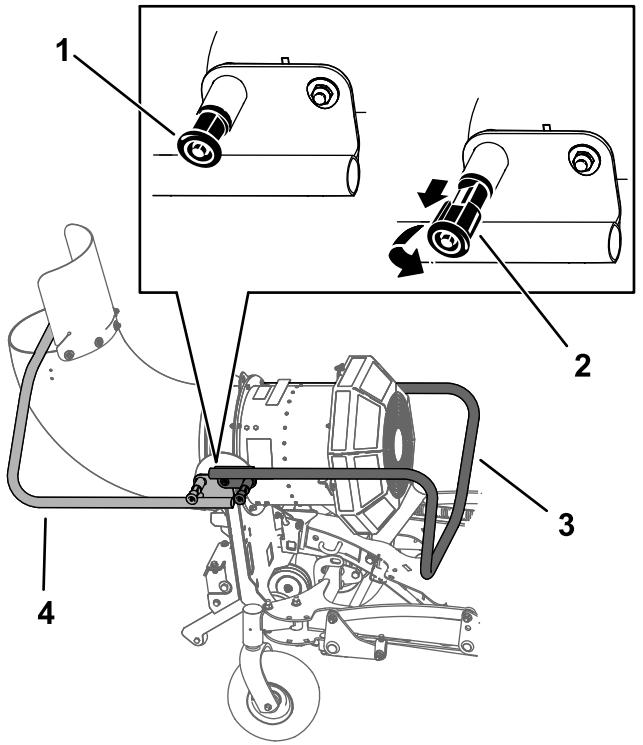


Figure 16

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- 1. Kickstand locking pin in the engaged position
- 2. Kickstand locking pin in the disengaged position
- 3. Kickstand in the blower operating position
- 4. Kickstand in the blower storage position

- 5. Remove the hitch pin and hairpin cotter securing the blower assembly to the hitch receiver ([Figure 17](#)).

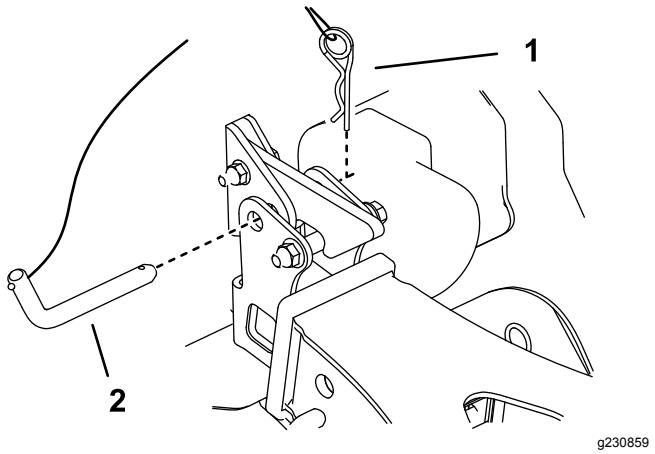
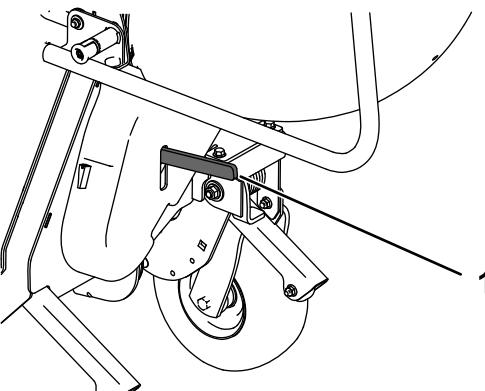


Figure 17

- 1. Hairpin cotter
- 2. Hitch pin

- 6. Hold the kickstand and push the release lever down. Slowly lower the kickstand to the ground.

Note: Once the lever disengages the hitch pin, the blower rotates down.



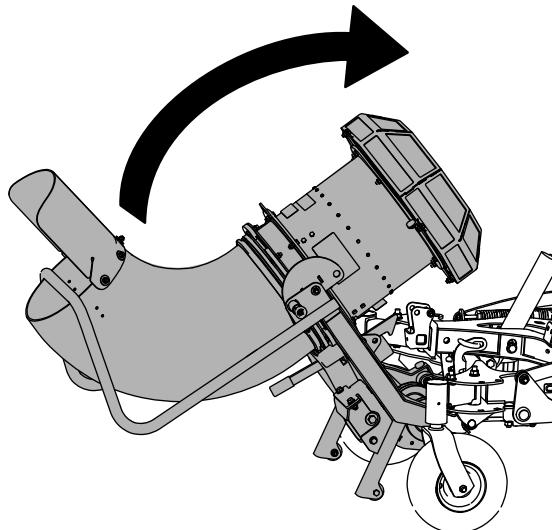
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Figure 18

- 1. Release lever

Raising the Blower

- 1. Raise the blower so that it latches on the hitch receiver ([Figure 19](#) and [Figure 20](#)).



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Figure 19

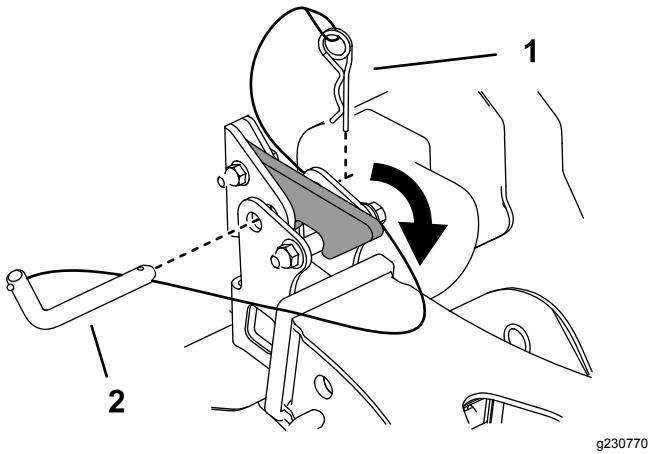


Figure 20

1. Hairpin cotter 2. Hitch pin

- Secure the assembly to the hitch receiver using the hitch pin and hairpin cotter attached to the receiver (Figure 20).
- Pull out the kickstand locking pins on both sides of the machine, rotate them 90 degrees so that they are disengaged, and raise the kickstand (Figure 21). Engage the knobs and ensure that the pins snap into position.

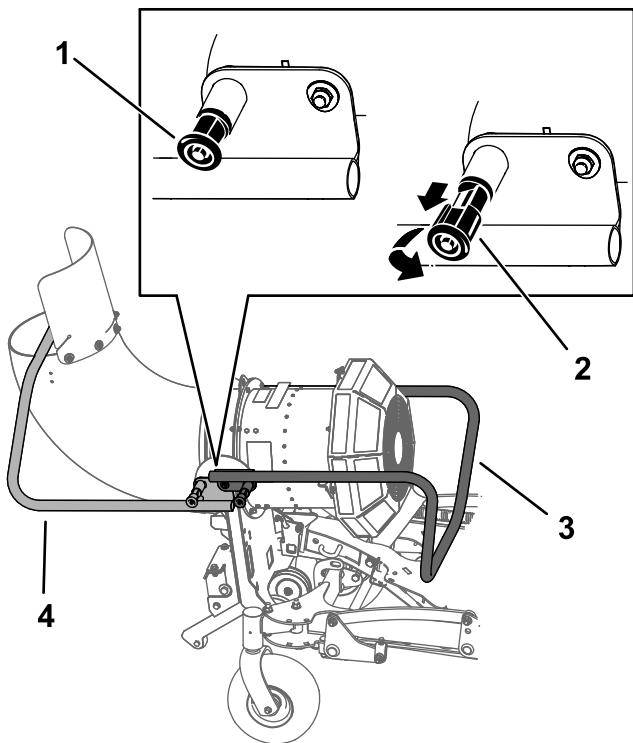


Figure 21

- | | |
|---|---|
| 1. Kickstand locking pin in the engaged position | 3. Kickstand in the blower operating position |
| 2. Kickstand locking pin in the disengaged position | 4. Kickstand in the blower storage position |

Removing the Blower

- Park the machine on a level surface, disengage the PTO, engage the parking brake, and move the motion-control levers outward to the NEUTRAL-LOCK position.
- Shut off the engine and remove the key.
- Disconnect the blower hydraulic hoses from the quick-disconnect couplings on the Low Flow Kit.
- Lower the blower; refer to [Lowering the Blower \(page 10\)](#).
- Remove the belt from the clutch.

Note: If needed, use a drive ratchet (1/2 inch) to move the left idler pulley (Figure 22).

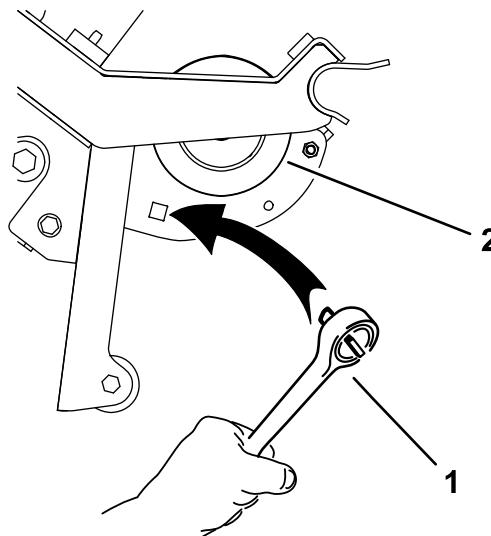


Figure 22

1. Drive ratchet 2. Pulley

- Lift the blower assembly off the bushing assemblies on the machine.

7. Remove the hitch pin, cotter pin, and hitch receiver from the A-frame. Install the hitch pin and cotter pin to secure the A-frame ([Figure 23](#)).

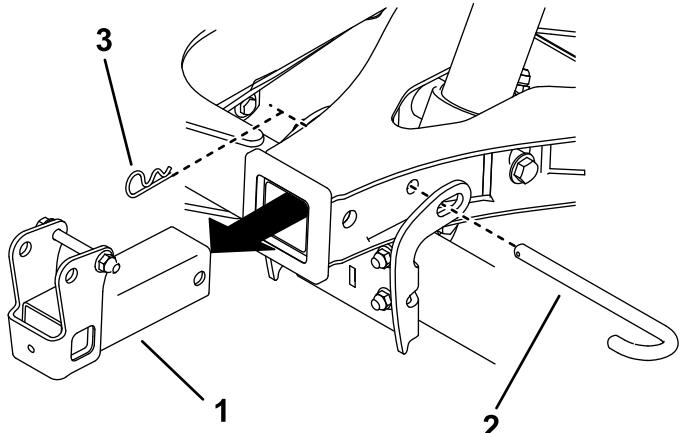


Figure 23

1. Hitch receiver
 2. Hitch pin
 3. Cotter pin

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8. Remove the stop brackets (Figure 24).

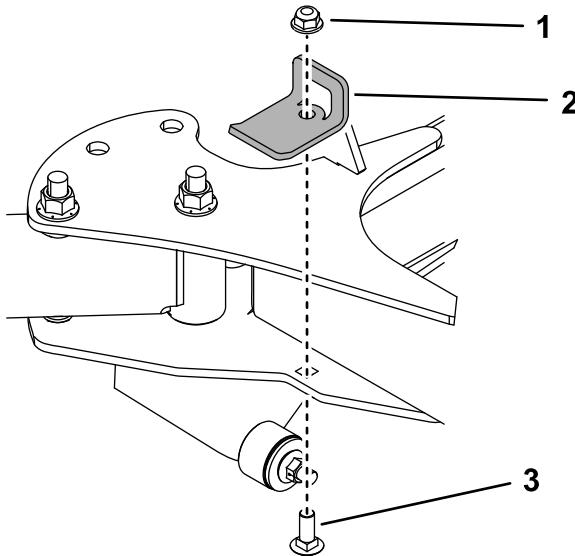


Figure 24

1. Locknut (3/8 inch)
 2. Stop bracket
 3. Carriage bolt (3/8 x 1 inch)

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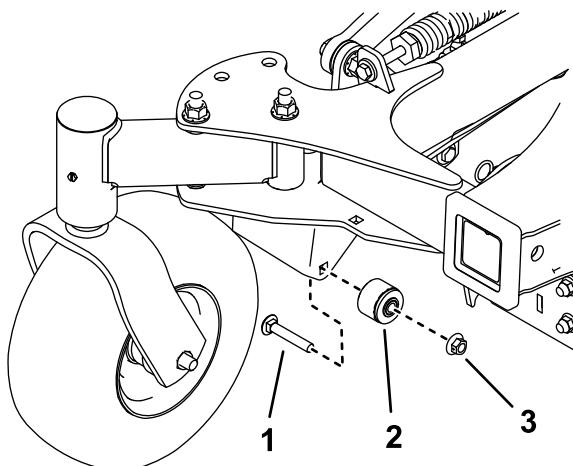


Figure 25

- | | |
|---------------------|--------|
| 1. Bolt | 3. Nut |
| 2. Bushing assembly | |

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10. Use the fasteners to store the bushing assemblies on the left side of the blower frame (Figure 26).

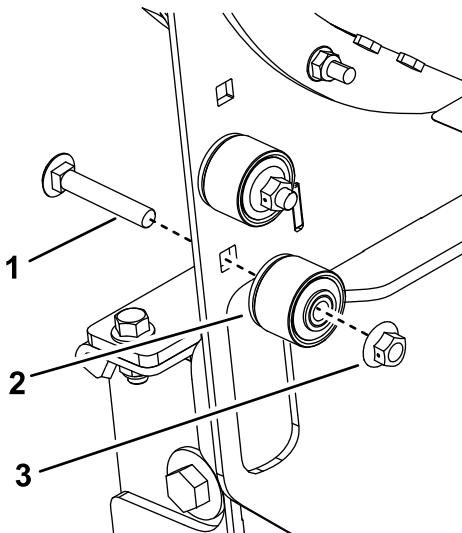


Figure 26

1. Bolt
 2. Bushing assembly
 3. Nut

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9. Remove both bushing assemblies (Figure 25).

11. Remove the heat shield (Figure 27).

Important: Whenever you install the blower on another machine, you must also install the heat shield.

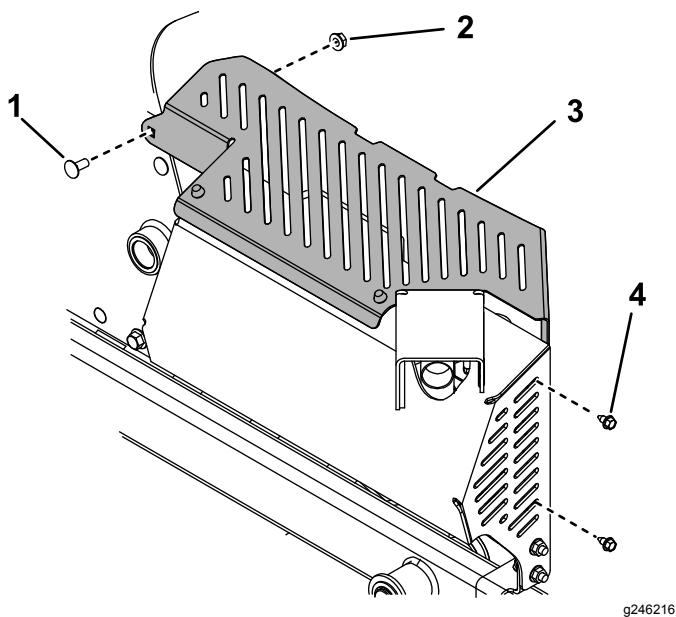


Figure 27

- | | |
|------------------|----------------------------|
| 1. Carriage bolt | 3. Heat shield |
| 2. Nut | 4. Thread-forming bolt (2) |

14. Remove the 2 bolts and 2 nuts from the right side of the machine and use them to install fan guard (Figure 28). Torque the bolts to 37 to 45 N·m (27 to 33 ft-lb).

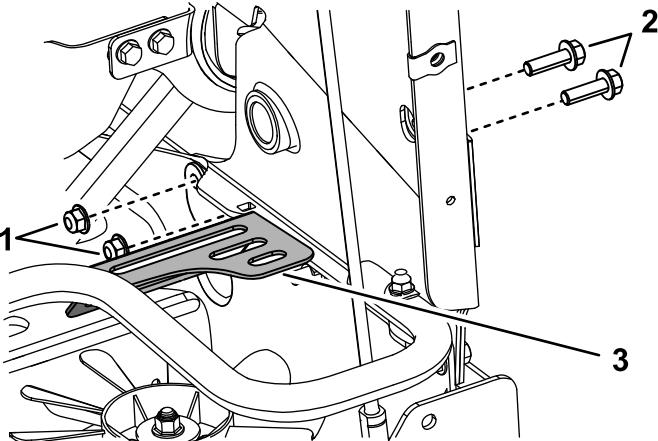


Figure 28

- | | |
|------------------------------|--------------|
| 1. Nut (3/8 inch) | 3. Fan guard |
| 2. Bolt (3/8 x 1-1/4 inches) | |

15. Install the fuel tank.

12. Install the carriage bolt and nut to secure the muffler guard. Torque the bolt to 1978 to 2542 N·cm (175 to 225 in-lb).
13. Remove the fuel tank; refer to the *Operator's Manual* for the machine.

Operating Tips

- Practice operating the blower. Blow the same direction the wind is blowing to prevent material from blowing back into the cleared area.
- Be aware of the blower nozzle direction and do not point it at anyone.
- Adjust the nozzle opening so that it blows under the debris.
- Use caution when blowing around newly planted sod as the force of the air could disrupt the grass.
- The nozzle outlet position affects the distance debris can be blown.
- When you rotate the nozzle, rotate it upward and around to prevent blowing debris back into the cleared area.

Maintenance

Maintenance Safety

- Park the machine on a level surface. Never allow untrained personnel to service the machine.
- Use jack stands to support the machine when required.
- Remove the key from the switch on the traction unit to prevent accidental starting of the engine when servicing, adjusting, or storing the machine.
- Perform only those maintenance instructions described in this manual. If the blower requires a major repair, contact an authorized Toro distributor.
- Ensure that the machine is in safe operating condition by keeping nuts, bolts, and screws tight.
- Keep your hands and feet away from moving parts. Do not make adjustments with the engine running.
- Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.
- To ensure optimum performance and continued safety certification of the machine, use only genuine Toro replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous, and such use could void the product warranty.

Checking the Belts

Service Interval: Every 300 hours

Check the belts for cracks, frayed edges, burn marks, or any other damage. Replace damaged belts.

Replacing the Blower Belt

1. Park the machine on a level surface, disengage the PTO, and engage the parking brake.
2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
3. Remove the belt cover (Figure 29).

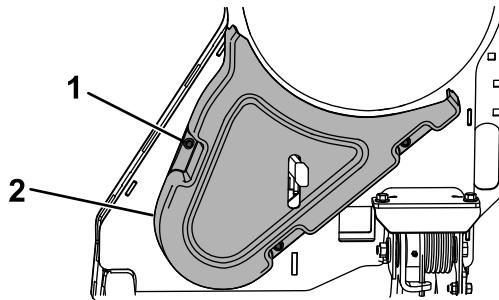


Figure 29

1. Bolt (3)
2. Belt cover

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4. Loosen the nut on the top pulley and slide the pulley up to release tension on the belt (Figure 30).

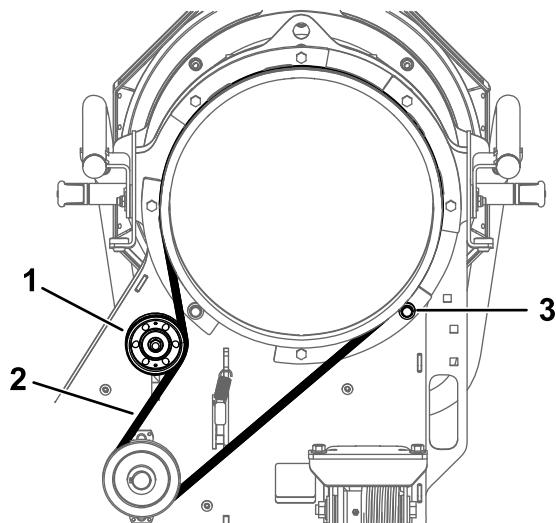


Figure 30

Blower nozzle not shown for clarity

1. Top pulley
2. Belt
3. Roller bearing
5. Remove the roller bearing (Figure 30).
 6. Remove the belt and install a new belt (Figure 30).
 7. Install the roller bearing (Figure 30)
 8. Slide the top pulley down until the belt deflection is 5 mm (0.19 inch) at the center of the largest span and tighten the nut (Figure 30).

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Replacing the Clutch Belt

1. Park the machine on a level surface, disengage the PTO, and engage the parking brake.
 2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
 3. Lower the blower.
 4. Loosen the nozzle clamp and remove the nozzle.
 5. Remove the belt from the machine clutch.
- Note:** If needed, use a drive ratchet (1/2 inch) to move the left idler pulley (Figure 13).
6. Remove the belt from the fan pulley (Figure 31).

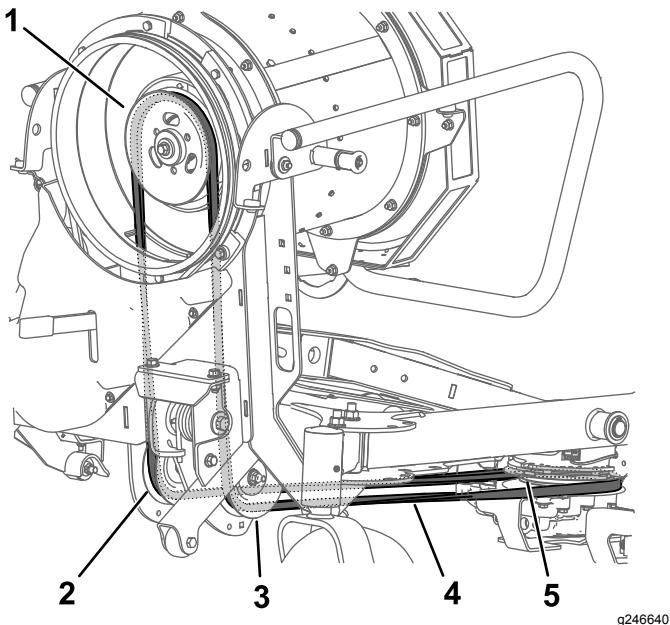


Figure 31

- | | |
|-----------------------|------------------|
| 1. Fan pulley | 4. Belt |
| 2. Right idler pulley | 5. Clutch pulley |
| 3. Left idler pulley | |
-
7. Route the belt down through the drive adapter assembly, around the idler pulleys, and around the clutch pulley (Figure 31). Ensure that the belt is seated properly in the pulley grooves.

Note: If needed, you may use a drive ratchet (1/2 inch) to move the left idler pulley (Figure 13).

Checking the Hydraulic Hoses

Service Interval: Every 100 hours

Check the hydraulic hoses for leaks, loose fittings, kinked lines, loose mounting supports, wear, weather, and chemical deterioration.

⚠ WARNING

Hydraulic fluid escaping under pressure can penetrate skin and cause injury. Fluid injected into the skin must be surgically removed within a few hours by a doctor familiar with this form of injury; otherwise, gangrene may result.

- Ensure that all hydraulic-fluid hoses and lines are in good condition and all hydraulic connections and fittings are tight before applying pressure to the hydraulic system.
- Keep your body and hands away from pinhole leaks or nozzles that eject high-pressure hydraulic fluid.
- Use cardboard or paper to find hydraulic leaks; never use your hands.

Removing Debris from the Machine

Service Interval: After each use

1. Park the machine on a level surface, disengage the PTO, and engage the parking brake.
2. Shut off the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
3. Clean debris from the drives, muffler, and engine after each use.

Notes:

Notes:



Count on it.